



JP Maths

Revision



Attempt the paper
before watching the
solutions!

[https://www.youtube.com/
@JPMathsRevision](https://www.youtube.com/@JPMathsRevision)



FOUNDATION / HIGHER TIER

Factorising Single Brackets



INSTRUCTIONS

- Use **black ink** or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.



INFORMATION

- The marks for **each** question are shown in brackets– *use this as a guide as to how much time to spend on each question.*



ADVICE

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.



You've got this! ❤️

1. Factorise $2x + 6$

$$2(x+3)$$

(Total for Question 1 is 1 mark)

2. Factorise $3x + 12$

$$3(x+4)$$

(Total for Question 2 is 1 mark)

3. Factorise $8x + 20$

$$4(2x+5)$$

(Total for Question 3 is 1 mark)

4. Factorise $2a + 10$

$$2(a+5)$$

(Total for Question 4 is 1 mark)

5. Factorise $12a - 16$

$$4(3a-4)$$

(Total for Question 5 is 1 mark)

6. Factorise $5x - 25$

$$5(x-5)$$

(Total for Question 6 is 1 mark)

7. Factorise $12x - 30$

$$6(2x-5)$$

(Total for Question 7 is 1 mark)

8. Factorise $-15x - 25$

$$-5(3x+5)$$

(Total for Question 8 is 1 mark)

9. Factorise $-14x - 21$

$$-7(2x+3)$$

(Total for Question 9 is 1 mark)

10. Factorise $x^2 + x$

$$x(x+1)$$

(Total for Question 10 is 1 mark)

11. Factorise $9a^2 + 3a$

$$3a(3a+1)$$

(Total for Question 11 is 1 mark)

12. Factorise $6x^2 - 12x$

$$6x(x-2)$$

(Total for Question 12 is 1 mark)

13. Factorise $14x^2 - 28x$

$$7x(2x-4)$$

(Total for Question 13 is 1 mark)

14. Factorise $2a + 6b - 10c$

$$2(a+3b-5c)$$

(Total for Question 14 is 1 mark)

15. Factorise $24a - 28b$

$$4(6a-7b)$$

(Total for Question 15 is 1 mark)

16. Factorise $ab + bc$

$$b(a+c)$$

(Total for Question 16 is 1 mark)

17. Factorise $-2x - 8y$

$$-2(x+4y)$$

(Total for Question 17 is 1 mark)

18. Factorise $8x^2 - 4xy$

$$4x(2x-y)$$

(Total for Question 18 is 1 mark)

19. Factorise $12x^2 - 16x^3$

$$4x^2(3-4x)$$

(Total for Question 19 is 1 mark)

20. Factorise $4p + 12pq$

$$4p(1+3q)$$

(Total for Question 20 is 1 mark)
